ACKNOWLEDGMENT

I am greatly indebted to my guide Dr. Chaitanya G. Dave, Principal, M. G. Science Institute, Ahmedabad, to whom this work is dedicated. Mere words cannot express my gratitude to him. His knowledge has always been a streak of light helping me come out of darkness during my research work.

I acknowledge all the members of M. G. Science Institute for their cooperation.

I am highly thankful to Mr. M. M. Jotani and C. S. M. R., Bhavnagar, for providing the X-ray crystallography data.

Special thanks to RSIC, Chandigarh for providing NMR and MASS spectral data.

I am thankful to Dishman Pharmaceuticals and chemicals Pvt. Ltd. for providing phase transfer catalysts and IR spectral data.

Sincere thanks to my colleagues Dr. Manish Shukla, Dr. Rina Shah, Dr. Nirmal Desai, Mr. Killol Patel, Mrs. Vaishali Shah, Ms. Cicily Augustine, Mr. Dhaval Shah, Mr. Hardik Joshipura and Ms. Neha Thaker.

Very special thanks to my parents and family members for showing their patience and encouragement in fulfilling my life's desire.

Last but not least, heartiest thanks to my dear wife for all the pains taken to complete this work, without her this would have been an impossible task for me.